•	Application No.	Applicant(s)
	10/773,464	LEE, HI-CHOON
Notice of Allowability	Examiner	Art Unit
	Huan Hoang	2827
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-4</u> .		
3. The drawings filed on <u>09 February 2004</u> are accepted by t	he Examiner.	•
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Horizontal Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner'</li> <li>Paper No./Mail Date</li> </ol>	son's Patent Drawing Review ( PTO-	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)		
1. Notice of References Cited (PTO-892)		atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	te
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 020904</li> </ol>	08), 7. Examiner's Amendr	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	<del>-</del>	ent of Reasons for Allowance
of Biological Material	9.  Other	1 Udvan
		Huan Hoang Primary Examiner Art Unit 2827

## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:

Claims 1-4 recite a semiconductor memory device that performs read and write operations in synchronization with an external clock signal. The memory device comprises a column selection line enable control circuit that generates even-numbered column selection line enable signals in response to the first clock signal and that generates odd-numbered column selection line enable signals in response to the second clock signal; a switching that connects a pair of bit lines to a pair of even-numbered input/output lines in response to the even-numbered column selection line enable signals and that connects the pair of bit lines to a pair of odd-numbered I/O lines in response to the odd-numbered column selection line enable signals; and an I/O line sense amplification circuit that senses and amplifies even-numbered read data from the pair of even-numbered I/O lines and outputs the amplified even-numbered read data to a pair of data lines in response to the first clock signal, and that senses and amplifies odd-numbered read data from the pair of odd-numbered I/O lines and outputs the odd-numbered read data to the pair of data lines in response to the second clock signal.

The prior art does not teach or suggest the above memory device having all the elements as recited in claims 1-4. Therefore, the application is in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (571) 272-1779. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai Ho can be reached on (571) 272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Huan Hoang **Primary Examiner** Art Unit 2827

HH 2/6/05.